**EAST Search History**

**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L1 | 1 | ("6929481").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2011/04/25 13:18 |
| L2 | 7759 | (dummy or simulat$3) instrument (angle or angulation or position or orientation) (cable or wire or cord or tether) connector | US-PGPUB; USPAT | AND | ON | 2011/04/25 13:38 |
| L3 | 3666 | L2 @ad<="20031219" | US-PGPUB; USPAT | AND | ON | 2011/04/25 13:38 |
| L4 | 5 | L3 @pd>="20110211" | US-PGPUB; USPAT | AND | ON | 2011/04/25 13:38 |
| L5 | 1228 | (434/262,267,272).CCLS. | US-PGPUB; USPAT | OR | OFF | 2011/04/25 13:38 |
| L6 | 653 | L5 @ad<="20031219" | US-PGPUB; USPAT | AND | ON | 2011/04/25 13:38 |
| L7 | 0 | L6 @pd>="20110211" | US-PGPUB; USPAT | AND | ON | 2011/04/25 13:38 |
| L8 | 6 | L6 @pd>="20100817" | US-PGPUB; USPAT | AND | ON | 2011/04/25 13:39 |
| S1 | 1 | GB-2409326-$.did. | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/03/01 11:29 |
| S2 | 1 | GB-2384613-$.did. | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/03/01 11:29 |
| S3 | 1 | WO-02070980-$.did. | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/03/01 11:29 |
| S4 | 1 | WO-03058583-$.did. | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/03/01 11:30 |
| S5 | 1 | GB-2252656-$.did. | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/03/01 11:30 |
| S6 | 1 | GB-2392000-$.did. | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/03/01 11:32 |
| S8 | 1 | WO-2005059866-$.did. | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/03/01 11:32 |

| S10 | 3353 | (G09B23/00).IPCR. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2010/03/01 11:34 |
| S11 | 1485 | (G09B23/28).IPCR. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2010/03/01 11:34 |
| S13 | 2962 | S10 or S11 | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/03/01 11:35 |
| S14 | 2209 | S13 @pd<="20031219" | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/03/01 11:35 |
| S15 | 5 | (S2 or S3 or S4 or S5 or S6) | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/03/01 11:56 |
| S16 | 0 | S15 (detach$4 or twist$4 or untwist) | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/03/01 11:56 |
| S17 | 1 | S15 (umbilical) | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/03/01 11:57 |
| S19 | 1 | ("20010016804").PN. | US-PGPUB; USPAT | OR | OFF | 2010/03/01 12:11 |
| S20 | 1092 | (434/262,267,272).CCLS. | US-PGPUB; USPAT | OR | OFF | 2010/03/01 12:16 |
| S22 | 643 | S20 @ad<="20031219" | US-PGPUB; USPAT | AND | ON | 2010/03/01 12:17 |
| S23 | 423 | S22 (remov$4 or detach$4 or twist$4 or untwist$4 or disconnect$4) | US-PGPUB; USPAT | AND | ON | 2010/03/01 12:18 |
| S25 | 355 | S23 ($7scope or $7scopic) | US-PGPUB; USPAT | AND | ON | 2010/03/01 12:19 |
| S26 | 40 | S22 ((remov$4 or detach$4 or twist$4 or untwist$4 or disconnect$4) with ($7scope or $7scopic)) | US-PGPUB; USPAT | AND | ON | 2010/03/01 12:19 |
| S27 | 1143 | (434/262,267,272).CCLS. | US-PGPUB; USPAT | OR | OFF | 2010/08/06 13:33 |
| S28 | 647 | S27 @ad<="20031219" | US-PGPUB; USPAT | AND | ON | 2010/08/06 13:33 |
| S29 | 15 | S28 ((umbilical)) | US-PGPUB; USPAT | AND | ON | 2010/08/06 13:33 |
| S30 | 7123 | (dummy or simulat$3) instrument (angle or angulation or position or orientation) (cable or wire or cord or tether) connector | US-PGPUB; USPAT | AND | ON | 2010/08/06 13:41 |

| S31 | 3644 | S30 @ad<="20031219" | US-PGPUB; USPAT | AND | ON | 2010/08/06 13:41 |
| S32 | 1107 | S31 medical | US-PGPUB; USPAT | AND | ON | 2010/08/06 13:42 |
| S33 | 5436 | S32 tactile or (force adj feedback) | US-PGPUB; USPAT | AND | ON | 2010/08/06 13:42 |
| S34 | 140 | S32 (tactile or (force adj feedback)) | US-PGPUB; USPAT | AND | ON | 2010/08/06 13:42 |
| S35 | 124 | S34 (remov$4 or detach$4 or twist$4 or untwist$4 or disconnect$4) | US-PGPUB; USPAT | AND | ON | 2010/08/06 13:43 |
| S36 | 1 | ("20030130711").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2010/08/06 13:55 |
| S37 | 12 | (US-20030130711-$).did. or (US-7344533-$ or US-7285090-$ or US-7242988-$ or US-7208005-$ or US-7192284-$).did. or (WO-9939317-$ or WO-02070980-$ or GB-2383890-$ or GB-2252656-$ or GB-2392000-$ or GB-2409326-$).did. | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/08/06 15:20 |
| S38 | 17 | (US-20030130711-$).did. or (US-7344533-$ or US-7285090-$ or US-7242988-$ or US-7208005-$ or US-7192284-$).did. or (WO-9939317-$ or WO-02070980-$ or GB-2383890-$ or GB-2252656-$ or GB-2392000-$ or GB-2409326-$).did. | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/08/06 15:21 |
| S39 | 5 | S38 loop | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/08/06 15:21 |
| S40 | 1 | "6929481".pn. tension | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/08/15 22:04 |
| S41 | 0 | "6929481".pn. resolution | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/08/15 22:06 |
| S42 | 1 | "6929481".pn. encoder | US-PGPUB; USPAT; DERWENT | AND | ON | 2010/08/15 22:06 |
| S43 | 1 | ("5771181").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2011/01/12 14:58 |

| S44 | 1 | ("2005128822").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2011/01/12 16:15 |
| S45 | 1 | ("20050128822").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2011/01/12 16:15 |
| S46 | 168 | US-20070254272-$.DID. OR US-7100690-$.DID. OR US-4333196-$.DID. OR US-7156664-$.DID. OR US-7328741-$.DID. OR US-20050042588-$.DID. OR US-20030212425-$.DID. OR US-20060073457-$.DID. OR US-20040173352-$.DID. OR US-20080306489-$.DID. OR US-20060047273-$.DID. OR US-5047036-$.DID. OR US-20060065401-$.DID. OR US-7566825-$.DID. OR US-20060146172-$.DID. OR US-20090064845-$.DID. OR US-20090036893-$.DID. OR US-20090088674-$.DID. OR US-5136196-$.DID. OR US-4648401-$.DID. OR US-7007625-$.DID. OR US-5462555-$.DID. OR US-7082994-$.DID. OR US-6780195-$.DID. OR US-20050066871-$.DID. OR US-20020169459-$.DID. OR US-20060226668-$.DID. OR US-20060129029-$.DID. OR US-20030167997-$.DID. OR US-5122067-$.DID. OR US-6086600-$.DID. OR US-20090298008-$.DID. OR US-3792421-$.DID. OR US-4856517-$.DID. OR US-7036773-$.DID. OR US-4631881-$.DID. OR US-7246567-$.DID. OR US-5356360-$.DID. OR US-7810555-$.DID. OR US-5833499-$.DID. OR US-20020083880-$.DID. OR US-6234671-$.DID. OR US-20040083940-$.DID. OR US-6846285-$.DID. OR US-20050045771-$.DID. OR US-6925260-$.DID. OR US-20050204992-$.DID. OR US-7104951-$.DID. OR US-20070175642-$.DID. OR US- | US-PGPUB; USPAT; DERWENT | AND | ON | 2011/01/12 16:18 |

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| | | 20040010271-$.DID. OR US-6920347-$.DID. OR US-20080294191-$.DID. OR US-7001389-$.DID. OR US-3695377-$.DID. OR US-7265844-$.DID. OR US-3986442-$.DID. OR US-7276075-$.DID. OR US-4018304-$.DID. OR US-20030224324-$.DID. OR US-4094159-$.DID. OR US-20040064185-$.DID. OR US-4108353-$.DID. OR US-20040201849-$.DID. OR US-4109852-$.DID. OR US-20050283173-$.DID. OR US-4109854-$.DID. OR US-20060074431-$.DID. OR US-4111356-$.DID. OR US-20060224120-$.DID. OR US-4114802-$.DID. OR US-20080039719-$.DID. OR US-4120449-$.DID. OR US-20090082720-$.DID. OR US-4140114-$.DID. OR US-4194684-$.DID. OR US-3801126-$.DID. OR US-4196307-$.DID. OR US-3930664-$.DID. OR US-4217066-$.DID. OR US-4930595-$.DID. OR US-4224804-$.DID. OR US-5127915-$.DID. OR US-4245383-$.DID. OR US-5293119-$.DID. OR US-4271761-$.DID. | | | | |
|---|---|---|---|---|---|---|
| S48 | 8 | ((("6929481") or ("4343300") or ("4642055") or ("7156664") or ("5704791") or ("6255846") or ("6106494")).PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2011/01/12 16:35 |
| S49 | 12 | ("6106301" \| "6113395" \| "6135947" \| "6470302" \| "6654000" \| "6863536" \| "6902405" \| "6929481" \| "7056123" \| "7060025").PN. OR ("7156664").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2011/01/12 17:13 |
| S50 | 73 | (S47 or S48 or S49) (detach$4 or releas$4) | US-PGPUB; USPAT; USOCR | AND | ON | 2011/01/12 17:20 |
| S51 | 76 | (S47 or S48 or S49) (connector or plug or jack or port) | US-PGPUB; USPAT; USOCR | AND | ON | 2011/01/12 17:21 |
| S52 | 25 | S51 (twist$3 or tangl$3) | US-PGPUB; USPAT; USOCR | AND | ON | 2011/01/12 17:30 |

| S53 | 2 | (("6746445") or ("6440126")).PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2011/01/12 17:32 |
| S54 | 10 | (S47 or S48 or S49) ((partial $2 or full$2) with (detach$4 or releas$4)) | US-PGPUB; USPAT; USOCR | AND | ON | 2011/01/12 17:51 |
| S55 | 1 | WO-03021553-$.did. | US-PGPUB; USPAT; DERWENT | AND | ON | 2011/01/12 17:54 |
| S56 | 96 | (Wallaker.in. or keymed.as.) | US-PGPUB; USPAT; DERWENT | AND | ON | 2011/01/12 18:10 |

## EAST Search History (Interference)

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**4/25/2011 1:40:52 PM**
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